Subject Index

Volume 8, 1993

Antiinflammatory drugs
nonsteroidal, affecting blood loss in hip arthroplasty, 607
Aspiration of hip
in diagnosis of infected arthroplasty, 611
Association for Arthritic Hip and Knee Surgery
abstracts from second annual meeting, 99
Autopsy studies. *See* Retrieved implant analysis

Blood loss affected by nonsteroidal antiinflammatory drugs
in hip arthroplasty, 607
Blood reinfusion
after knee arthroplasty, 269
after revision of hip and knee arthroplasties, 125
and hemoglobin levels after arthroplasties, 423
Bone
cancellous, response to titanium and hydroxyapatite-coated implants, 157
computer simulation of remodeling around acetabular components, 595
density of femoral neck sections, 641
ingrowth into porous-coated implants
acetabular, 213
femoral, 147
shoulder, 189
mineral content affected by medullary filling material, 555
osteolysis from press-fit hydroxyapatite-coated implant, 195
scans in diagnosis of infected hip arthroplasty, 611
Bone–cement interface
autopsy studies in well-fixed hip arthroplasties, 179
offset of femoral component affecting strain in, 23
pressurization of femoral cement affecting, 585
in resurface hip arthroplasties, 617
ultrasound device affecting, during cement removal, 413, 517
Bone–grafts
for acetabular deficiency in hip arthroplasty, results with, 371
and bipolar socket in protrusio acetabuli, 405
failure of bulk femoral head allografts in acetabular reconstructions, 341
Phemister bone–grafting in aseptic necrosis of femoral head, 253
posterior allograft bone–block for recurrent hip dislocation after hemiarthroplasty, 593
selection of proximal femur allograft for revision arthroplasty, 347
solid allograft in revision hip arthroplasty, 361
Bone loss
in contralateral hip arthroplasty, and femoral head from primary arthroplasty side to supplement deficient revision side, 141
and custom cementless femoral components in revision surgery, 245
Book review, 227

Carbon composite material for femoral component
affecting cementless fixation in hip arthroplasty, 67
Cement
effects of pressurization in femur, 585
prevention of voids in hip arthroplasty, 107
removal with ultrasound device
in revision hip arthroplasty, 517
and temperatures generated in bone–cement structure, 413
Ceramic femoral heads in hip arthroplasty
fracture of, 567
Charcot's joint
knee arthroplasty in, 335
Cobalt chrome femoral components
and polyethylene wear in hip arthroplasty, 315
Computer simulations
of bone remodeling around acetabular components, 595

Diabetes mellitus
hip arthroplasty in, 279

Dislocation
of hip arthroplasty, recurrent
posterior allograft bone–block in, 593
trochanteric osteotomy in, 629
of knee arthroplasty with posterior-stabilized components, 633

Editorials, 229, 230
Elbow arthroplasty
stability of unconstrained prosthesis in, 291
Embolic complications
of calf thrombosis after hip arthroplasty, 449

Fabellar impingement
in knee arthroplasty, 95
Femur
compatibility of noncemented hip prostheses with, 7
density of neck sections, 641
necrosis of head
Phemister bone–grafting in, 253
presymptomatic ischemic, 383
and uncemented hip arthroplasty after previous bone–grafting, 1
normal axial alignment with tibia, 419
rapidly progressive osteolysis of head, 541
Fracture of ceramic femoral heads
in hip arthroplasty, 567

Gallium scans
in diagnosis of infected hip arthroplasty, 611
Golfers
knee arthroplasty in, 299

Hemoglobin levels after arthroplasties
blood reinfusion affecting, 423
Hip arthroplasty
bipolar socket in protrusio acetabuli, 405
blood loss affected by nonsteroidal antiinflammatory drugs in, 607
blood reinfusion after
affecting hemoglobin levels, 423
in revision surgery, 125
and bone density of femoral neck sections, 641
cement voids prevented in, 323
materials affecting polyethylene wear in, 315
muscle strength after, 625
offset of femoral component affecting strain in bone–cement structure, 23
pressurization of femoral cement in, 585
in rapidly progressive femoral head osteolysis, 541
recurrent dislocation of
posterior allograft bone–block in, 593
trochanteric osteotomy in, 629
results of bone–grafts for acetabular deficiency in, 371
resurface, retrieved femoral heads in, 617
revisions of. *See* Revision surgery
socket wear assessment in, 427
uncemented
in aseptic necrosis of femoral head and previous bone–grafting, 1
and assembly strains produced in cadaver femurs, 479
compatibility of prostheses with human femur, 7
distally interlocked press-fit femoral prosthesis in, 129
effects of femoral component material properties in, 67
failure of polyethylene acetabular components in, 433
hemispheric acetabular components in, 573
loosening of threaded acetabular components in, 581
modular stem to reduce bending stiffness in, 239
nonporous distal stem affecting stability of proximally porous-coated femoral components in, 33
Hip Society
proceedings of committee for implant retrieval analysis, 145
Hydroxyapatite-coated implants
cancellous bone response to, 157
compared to porous acetabular cups, 167
compared to titanium porous-coated femoral implant from same patient, 203
functional osseointegration in canine hips, 549
loss of coating on hip components, 389
osteolysis from press-fit hip implant, 195

Iliopsoas bursa
cystic enlargement complicating hip arthroplasty, 657
Infected arthroplasties
hip
diagnostic studies in, 611
and reinfusion of whole blood after revision surgery, 125
knee
persistent wound drainage in, 285
and reinfusion of whole blood after revision surgery, 125

Johnson-Elloy knee arthroplasty
results of, 27

Knee arthroplasty
accurate preparation of patella in, 75
bilateral, comparison of subvastus and paramedian approaches in, 511
blood reinfusion after, 269
affecting hemoglobin levels, 423
in revision surgery, 125
breakage of Total Condylar III prosthesis, 561
in Charcot's joint, 335

cruciate-sparing
metal-backed or all-polyethylene tibial components in, 307
posterior polyethylene wear in, 439
and cutting errors in femoral component preparation, 503
detection of tibial component migration in, 117
dislocations with posterior-stabilized components in, 633
distal femoral arthroplasty with custom-made prostheses, 259
fabellar impingement in, 95
in golfers, 299
heterotopic ossification after, 113
implant retrieval analysis. *See* Retrieved implant analysis
infected
persistent wound drainage in, 285
and reinfusion of whole blood after revision surgery, 125
intramedullary versus extramedullary tibial alignment in, 43
lumbar spinal stenosis after, 273
and normal axial alignment of femur and tibia, 419
in octogenarians, 395
in patellectomized patients, 489
quadriceps tendon rupture after, 331
results with Johnson-Elloy prosthesis, 27
risk factors for deep vein thrombosis in, 133
screw and cement fixation of large defects in, 63
uncemented
compared to cemented tibial components, 529
in nonunions, press-fit intramedullary stems in, 49
varus-valgus tilting of screw-fixated prostheses in, 529

Letters to the editor, 143, 447, 565

Metal-backed tibial components
compared to all-polyethylene in cruciate condylar knee arthroplasty, 307
Muscle strength
after hip arthroplasty, 625

Necrosis of femoral head
Phemister bone–grafting in, 253
presymptomatic ischemic, 383
and uncemented hip arthroplasty after previous bone–grafting, 1
Nonunions at knee
arthroplasty with press-fit intramedullary stems in, 49

Octogenarians
knee arthroplasty in, 395
revision hip arthroplasty in, 401
Ossification
heterotopic, after knee arthroplasty, 113
Osteolysis
of femoral head, rapidly progressive, 541
from press-fit hydroxyapatite-coated implant, 195

Patella
accurate preparation in knee arthroplasty, 75
Patellectomy
knee arthroplasty after, 489
Phemister bone–grafting
in aseptic necrosis of femoral head, 253
Plantar venous compression
intermittent, in hip arthroplasty, 57
Polyethylene
acetabular components, uncemented, failure of, 433
posterior wear in cruciate-sparing knee arthroplasty, 439
tibial components compared to metal-backed components in cruciate condylar knee arthroplasty, 307
wear in hip arthroplasty, 315
Porous-coated implants
bone ingrowth
into acetabular components, 213
into femoral components, 147
into shoulder components, 189
compared to hydroxyapatite-coated acetabular components, 167
titanium compared to hydroxyapatite in same patient, 203
Pressurization
of femoral cement in hip arthroplasty, 585
Protrusio acetabuli
bipolar socket in, 405
Pulmonary embolism
in calif thrombosis after hip arthroplasty, 449

Quadriceps
tendon rupture after knee arthroplasty, 331

Radiography
in analysis of bone–grafts for acetabular deficiency, 371
in axial alignment analysis of femur and tibia, 419
in bone selection for revision arthroplasty, 347
in loosening of threaded acetabular components, 581
in socket wear assessment, 427
Resurface hip arthroplasty
retrieved femoral heads in, 617
Retrieved implant analysis
hip
bone–cement interface in, 179
bone ingrowth in cementless porous-coated acetabular components, 213
loss of hydroxyapatite coating on components, 389
mechanical evaluation of cementless bone-ingrowth femoral components, 147
osteolysis from press-fit hydroxyapatite-coated implant, 195

Retrieved implant analysis (*Continued*)
three types of femoral head resurface prostheses, 617
titanium and hydroxyapatite porous-coated femoral implants from same patient, 203
uncemented acetabular components, 167
knee
cancellous bone response to titanium and hydroxyapatite-coated implants in, 157
shoulder
bone ingrowth into porous-coated humeral component in, 189
Revision surgery
hip
in contralateral arthroplasty, and femoral head from primary arthroplasty side to supplement deficient revision side, 141
custom cementless femoral components for bone loss management in, 245
effects of ultrasound device for cement removal in, 413, 517
in octogenarians, 401
recurrent loosening of cemented femoral component in, 471
results of bone–grafts for acetabular deficiency in, 371
selection of proximal femur allograft in, 347
solid allograft in, 361
in infected hip and knee arthroplasties, reinfusion of whole blood after, 125
Roentgen stereophotogrammetry
in detection of tibial component migration in knee arthroplasty, 117
in evaluation of cemented acetabular prosthesis fixation, 83
in socket wear assessment, 427
in varus-valgus tilting of screw-fixated knee prostheses, 529

Shoulder arthroplasty
bone ingrowth into porous-coated humeral component, 189
disassembly of modular humeral prosthesis in, 653
Snobberies
types of, 231

Spinal stenosis
after lower extremity arthroplasty, 273
Stainless steel femoral components
affecting cementless fixation in hip arthroplasty, 67
and polyethylene wear in hip arthroplasty, 315
Stereophotogrammetry. *See* Roentgen stereophotogrammetry
Syphilis
and knee arthroplasty in Charcot's joint, 335

Tabes dorsalis
and knee arthroplasty in Charcot's joint, 335
Thrombosis, deep venous
after hip arthroplasty
embolic complications of, 449
prevention with intermittent plantar venous compression, 57
risk factors in knee arthroplasty, 133
Tibia
normal axial aligment with femur, 419
Titanium
alloy for femoral component affecting cementless fixation in hip arthroplasty, 67
femoral components made of, and polyethylene wear in hip arthroplasty, 315
implants coated with, cancellous bone response to, 157
porous-coated femoral implant compared to hydroxyapatite-coated implant from same patient, 203
Trochanteric osteotomy
and muscle strength after hip arthroplasty, 625
in recurrent dislocation of hip arthroplasty, 629

Ultrasound device for cement removal
effects in revision hip arthroplasty, 517
and temperatures generated in bone–cement structure, 413

Venous obstruction
from cystic enlargement of iliopsoas bursa in hip arthroplasty, 657
Venous thrombosis. *See* Thrombosis, deep venous

Author Index

Volume 8, 1993

Albrektsson, B. E. J., 117
Albrektsson, T., 617
An, Kai-Nan, 291
Antonelli, Luca, 549
Atwater, Richard, 371

Bachus, Kent N., 157, 203
Bankston, A. Brent, 315
Bargar, William L., 245
Barrack, Robert L., 189
Barrett, Kimberly G., 273
Barry, G. K., 27
Bartlett, David H., 75
Bauer, Thomas W., 167
Beaupré, G. S., 595
Beaver, Walter B., 523
Becker, Douglas A., 95
Benjamin, James B., 91, 511
Bennett, James T., 347
Berger, R. A., 323
Binnington, Allan, 549
Blazina, Martin E., 653
Bloebaum, Roy D., 157, 195, 203, 347
Bobyn, J. D., 7
Bødtker, Søren, 555
Bosco, Joseph A., 91
Bourne, R. B., 395
Bradley, John G., 57
Bradway, John K., 383
Bronson, Michael J., 657
Brooks, Andrew T., 413
Brooks, C. E., 7
Bullock, D. W., 143
Bullough, Peter G., 641
Burke, D. W., 23

Callaghan, John J., 1, 299
Cameron, Hugh U., 239
Cargill, A. O., 143
Carlsson, L. V., 117
Carter, D. R., 595
Channer, Mark, 43
Charlson, Mary E., 641
Christie, J., 607
Christie, Michael J., 273
Clark, Charles R., 1, 253
Cobb, Justin P., 259
Collier, John P., 389
Cook, Stephen D., 189
Crawford, R. J., 625
Cutignola, Laure, 641

Davey, J. Rod, 23
Davies, Jeff P., 585
Dennis, Douglas A., 43
Devane, P. A., 395
DiCarlo, Edward F., 641
DiFazio, Frank A., 573
Dorr, Lawrence D., 203, 361
Dujovne, A. R., 7
Dupont, Joseph A., 195

Edmunds, J. Ollie, Jr., 189
Ekelund, Anders, 629
Elloy, M. A., 27
Engh, Charles A., 147

Faris, Philip M., 63, 315
Fauré, Bruce T., 511
Fehrle, Margaret J., 1
Fernandez-Baillo, N., 331
Fornasier, Victor, 549
France, Matthew P., 653
Francis, Charles W., 449
Franzen, Jeffrey, 75
Freeman, M. A. R., 117
Fujii, Kenneth, 371
Fujimori, Juhro, 335

Galante, Jorge O., 213
Garay, E. Gil, 331
García-Cimbrelo, Eduardo, 459
Gardiner, Robert, 517
Geesink, Rudolph G. T., 167
Glauser, Shari J., 291
Grigoris, P., 433
Grothaus, Louis, 371

Hardinge, Kevin, 625
Hargett, Mary Jean, 133
Harris, William H., 23, 33, 179, 341, 479, 585
Harvey, I. A., 27
Harwin, Steven F., 113
Head, William, 147
Hearn, T., 129
Henshaw, Robert M., 479
Herberts, P., 117
Hirsch, Linda C., 653
Hofmann, Aaron A., 157, 347
Hølmer, Per, 567
Holmgren, Christer, 83
Honkala, Timothy K., 633
Hoogewoud, Henri-Marcel, 419
Hooper, Johnathon, 565
Howe, James G., 573
Hozack, William J., 517
Hungerford, David S., 229
Huo, Michael H., 279

Incavo, Stephen J., 573
Insall, John N., 49, 133, 448

Jacobs, Joshua J., 213
Jager, Horst J., 57
Jakob, Roland P., 419
Jasty, Murali, 33, 179, 341, 479
Jensen, Jørgen Steen, 471, 555
Jensen, Robert E., 389
Johanson, Norman A., 641
Johnson, R., 27

Kajino, Akihide, 335
Kang, James D., 489
Kärrholm, Johan, 83, 529
Keating, E. Michael, 63, 315, 517
King, Graham J. W., 291
Kiowa, Masahito, 335
Knight, Jonathan L., 371
Kolczun, Michael, 633
Krackow, Kenneth A., 285
Kraemer, William J., 611
Kramhøft, Morten, 555
Kress, Kenneth J., 49
Krugel, Richard, 633
Krugener, Gabriele H., 57
Krushell, Robert, 33
Krygier, J. J., 7
Kulick, Roy G., 113
Kwong, Louis Matthews, 179, 341

Langhans, Mark J., 449
Larson, Jeffrey E., 95
Lauritzen, Renee S., 347
Levenston, M. E., 595
Li, Yue, 549
Lindgren, U., 617
Lindsey, Betsy, 511
L'Insalata, John C., 448
Lombardi, Adolph V., Jr., 633
Lux, Paul S., 125, 269

Mahomed, Nizar, 129, 549
Maistrelli, Gianni L, 549
Malchau, H., 117
Malcolm-Smith, N., 607
Mallon, William J., 299
Mallory, Thomas H., 633
Maloney, William J., 179
Marder, Victor J., 449
Martin, Jeffrey W., 125, 269
Mauerhan, David R., 523
Mayor, Michael B., 389
McCarthy, Daniel S., 67
McClain, Edward J., Jr., 489
McMinn, D. J. W., 433
McNamara, Michael J., 273
McNeill, S. A., 143
McPherson, Edward J., 561
Mesko, J. Wesley, 541
Miller, J. E., 7
Mills, C. A., 565
Ming, Jiang, 167
Minns, R. J., 625
Moeckel, Bruce, 279
Mokris, Jeffrey G., 523
Moran, C. G., 447
Morberg, P., 617
Morrey, Bernard F., 291, 383
Morton, Jane, 611
Munuera, Luis, 459
Murphy, Edmond A., 231
Murzic, William J., 245

Nelson, Carl L., 413, 517
Nelson, Lynn M., 253
Neves, Manuel, 641
Newman, Mark A., 245
Nielsen, Poul T., 567
Nilsson, Kjell G., 529
Nimb, Lars, 555
Nott, Linda, 395
Nussman, Donna, 523

O'Connor, Daniel O., 23, 33, 479
Ohlin, Acke, 427
Ordoñez, J. M., 331
Oswald, Michael H., 419
Otani, Takuya, 67, 503

Paavilainen, Timo, 581
Paavolainen, Pekka, 581
Papas, Spiro N., 489
Paul, Howard A., 245
Pellegrini, Vincent D., Jr., 449
Pellicci, Paul M., 279
Peterson, Kirk K., 1
Peterson, Margaret G. E., 133
Pidhorz, Laurent E., 213
Porter, M. L., 625
Prewett, Ann B., 189

Ranawat, Chitranjan, 133
Rand, James A., 307
Raut, V. V., 401
Reigstad, A., 617
Retpen, Jens B., 471
Ries, Michael D., 593
Ritter, Merrill A., 63, 315
Roberts, P., 433
Robinson, C. M., 607
Røkkum, M., 617
Romanus, B., 617
Rorabeck, C. H., 395
Rothman, Richard H., 230
Rubash, Harry E., 323, 489
Rubman, Marc H., 203
Ryd, L., 117

Salkeld, Samantha L., 189
Salvati, Eduardo A., 279
Saplys, Ramunas, 611
Schatzker, J., 129
Schleiden, M., 323
Schmalzried, Thomas P., 179
Schneider, Erich, 419
Schurman, D. J., 595
Schutte, Del, 511
Scott, Richard D., 405, 439
Scuderi, Giles R., 49
Sedlacek, Ronald, 33
Selvik, Göran, 427
Sharrock, Nigel E., 133
Siems, Martin L., 413
Siney, P. D., 401
Sisto, Domenick J., 653
Skedros, John G., 347
Skinner, Robert A., 413
Slätis, Pär, 581
Smith, Evan F., 347
Snorrason, Finnur, 83
Sorscher, Michael, 633
Spengler, Dan M., 273
Steel, M. J., 323
Stein, Andrew J., 113
Stern, Richard E., 113
Stern, Steven H., 448
Stewart, Charles L., 413
Stringer, Elizabeth A., 43
Stulberg, Bernard N., 167
Sumner, Dale R., 213
Surprenant, Helene P., 389
Surprenant, Victor A., 389
Susman, Morris H., 43
Svensson, O., 617
Swany, Michael R., 439

Tallroth, Kaj, 581
Taylor, Jeffrey K., 245
Thomas, Kevin A., 347
Totterman, Saara, 449

Uchida, Shoji, 335
Unwin, Paul S., 259

Urban, Robert M., 213
Urquhart, Barbara, 133

Vaughn, Bradley K., 633
Vince, Kelly G., 561
Volz, Robert G., 511

Waddell, James P., 611
Walker, C. R., 27
Walker, Peter S., 259
Weiss, Arnold-Peter C., 285
Westreich, Andrew, 291
White, Stephen E., 67, 147, 503
Whiteside, Leo A., 67, 125, 147, 269, 503
Wilson, M. G., 405
Windsor, Russell E., 49, 133
Wroblewski, B. M., 141, 401, 565
Wrona, Marguerite, 389

Yang, S. Steven, 657
Ylinen, Pekka, 581
Yoshino, Shin'ichi, 335

Zalenski, Edward, 33
Zicat, B., 395
Zmolek, James C., 361